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(FILE 'HOME' ENTERED AT 16:28:21 ON 03 DEC 1999)

FILE 'REGISTRY' ENTERED AT 16:28:27 ON 03 DEC 1999

FILE 'CA' ENTERED AT 16:28:32 ON 03 DEC 1999

L1	12526 S VEGETABLE(2A)OIL#
L2	122931 S DIELECTRIC?
L3	89 S L1 AND L2
L4	63017 S ELECTRICAL
L5	7 S L3 AND L4
L6	10193 S TRANSFORMER? OR SWITCHGEAR?
L7	15 S L3 AND L6
L8	41410 S TRIGLYCERIDE?
L9	18 S L8 AND L2
L10	11 S L8 AND L6
L11	13051 S (OXIDATION OR OXYGEN) (3A) (REDUC? OR ABSORB?)
L12	2 S L6 AND L11
L13	54 S L11 AND L4

L7 ANSWER 2 OF 15 CA COPYRIGHT 1999 ACS
 AN 131:52898 CA
 TI **Vegetable** seed **oil** insulating fluid which is fire
 resistant and environmentally safe
 IN Sundin, David W.
 PA USA
 SO Can. Pat. Appl., 17 pp.
 CODEN: CPXXEB
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	----	-----	-----	-----
PI	CA 2204273	AA	19981101	CA 1997-2204273	19970501
AB	A unique, fire resistant, environmentally safe insulating oil comprised				
of					

selected **vegetable oils**, fortified with additives to
 improve stability and low temp. viscosity characteristics. The elec.
 equipment comprises an oil-sealed tank, the insulating oil filling the
 tank, and elec. components such as a **transformer**, switch, or
 fuse immersed in the described oil. Also contemplated is a solid-liq.
 insulation system comprising porous insulating materials satd. with
vegetable seed oil.

L7 ANSWER 3 OF 15 CA COPYRIGHT 1999 ACS
AN 131:12224 CA
TI Aging characteristics of synthetic liquids
AU Thomas, P.; Sridhar, S.
CS Central Research & Testing Laboratory, Central Power Research Institute,
Bangalore, 560 094, India
SO Conf. Rec. IEEE Int. Symp. Electr. Insul. (1998), (Vol. 2), 570-573
CODEN: CRIID6; ISSN: 0164-2006
PB Institute of Electrical and Electronics Engineers
DT Journal
LA English
AB Synthetic liqs. have been developed as substitutes for the PCB's in elec.
applications in **transformers**, capacitors and **switchgear**
equipments. These liqs. are tailor made to meet the requirement of
specific applications. Pentaerythritol esters of oleic acid and caprylic
acid, Me oleate, silicone oil, iso Pr biphenyl, alkyl benzene and liqs.
derived from **vegetable oil** were studied for elec.
strength, tan delta and resistivity before subjected to accelerated
aging.
These liqs. were subjected to accelerating ageing as per the procedure
outlined in ASTM D1934. The deterioration of the elec. properties due to
the oxidn. products like acids and sludge formation are evaluated and
discussed.

L7 ANSWER 4 OF 15 CA COPYRIGHT 1999 ACS
 AN 127:116384 CA
 TI **Vegetable oil** based **dielectric** coolant
 IN McShane, Charles Patrick; Corkran, Jerry L.; Harthun, Richard A.; Gauger, Gary A.; Rapp, Kevin J.; Howells, Edgar
 PA Cooper Industries, Inc., USA; McShane, Charles Patrick; Corkran, Jerry L.;
 Harthun, Richard A.; Gauger, Gary A.; Rapp, Kevin J.; Howells, Edgar
 SO PCT Int. Appl., 20 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9722977	A1	19970626	WO 1996-US20495	19961223
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, US, UZ, VN, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
CA 2240890	AA	19970626	CA 1996-2240890	19961223
AU 9713443	A1	19970714	AU 1997-13443	19961223
EP 868731	A1	19981007	EP 1996-944969	19961223
R: AT, BE, CH, DE, ES, FR, GB, LI, NL, IE				
BR 9612097	A	19990223	BR 1996-12097	19961223
PRAI US 1995-576372		19951221		
WO 1996-US20495		19961223		

AB A **transformer** is disclosed, including a tank housing a **transformer** core/coil assembly, a dielec. insulating fluid surrounding said core/coil assembly, said fluid comprising a **vegetable oil**, an antioxidant dissolved in said oil, and a low temp. additive blended into said oil, said fluid defining a headspace above said fluid. The preferred embodiment includes an oxygen absorbing material contained in said tank and in contact with gases in said tank but isolated from contact with said dielec. fluid, said tank including an opening and a sealed plug in said opening, such that said oxygen absorbing material can be replaced through said opening upon removal of said sealed plug, and further includes a gas permeable polymer container sealed against said opening for supporting said oxygen absorbing material and an indicator in gas contact with said headspace and visible from outside the tank for indicating the presence of oxygen in said headspace.

applicants

L7 ANSWER 6 OF 15 CA COPYRIGHT 1999 ACS
 AN 125:116200 CA
 TI Electric insulating resin compositions and manufacture of
 transformers
 IN Umagami, Isao; Nishigaki, Hisashi; Oomori, Eiji
 PA Hitachi Chemical Co Ltd, Japan
 SO Jpn. Kokai Tokkyo Koho, 5 pp.
 CODEN: JKXXAF
 DT Patent
 LA Japanese
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	----	-----	-----	-----
PI	JP 08109322	A2	19960430	JP 1994-247657	19941013
AB	In the manuf., transformers , for personal computers, copy machines, TV, etc, are impregnated with title compns. contg. unsatd. polyesters prepd. from dry or semi-drying vegetable oils , unsatd. dibasic acids, satd. acids, and alcs. 20-40, dicyclopentadienyl monomaleate (I) (their resins) 5-40, and crosslinking monomers 20-75% and are cured. Thus, soybean oil fatty acid 840, maleic acid anhydride 245, phthalic acid anhydride 148, and ethylene glycol 781 parts were condensed at 200-220.degree. to give a polyester, 20% of which was mixed with 5% I and 75% styrene to give a test piece showing viscosity 0.03 Pa-s (JIS C 2105), and adhesion strength 560 N at 100.degree..				

L7 ANSWER 11 OF 15 CA COPYRIGHT 1999 ACS
AN 106:112361 CA
TI Oil insulators for electric apparatus
IN Nishikawa, Shigeyoshi
PA Nichicon Capacitor Ltd., Japan
SO Jpn. Kokai Tokkyo Koho, 2 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	----	-----	-----	-----
PI	JP 61260503	A2	19861118	JP 1985-103288	19850514
	JP 05062405	B4	19930908		
AB	Oil-insulated elec. app. such as capacitors and voltage transformers use vegetable oils (e.g., rapeseed) contg. 0.01-5 wt.% alkylmethacrylate type polymers. The addn. of the polymers helps increase the reliability of the app.				

L7 ANSWER 12 OF 15 CA COPYRIGHT 1999 ACS
 AN 105:194323 CA
 TI Electric insulating oils
 IN Nishikawa, Shigeyoshi
 PA Nichicon Capacitor Ltd., Japan
 SO Jpn. Kokai Tokkyo Koho, 3 pp.
 CODEN: JKXXAF
 DT Patent
 LA Japanese
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 61156605	A2	19860716	JP 1984-279046	19841227
	JP 06007443	B4	19940126		
AB	<p>The title oils (e.g., for capacitors or transformers) are prepd. by blending .gtoreq.1 compds. selected from 1-phenyl-1-(methylphenyl)ethane (I), 1-phenyl-1-(ethylphenyl)ethane, 1-phenyl-1-(propylphenyl)ethane, 1-phenyl-1-(dimethylphenyl)ethane, and 1-phenyl-1-(diethylphenyl)ethane, with .gtoreq.55 vol.% vegetable oil or soybean oil. Thus, I was blended with 55 vol.% soybean oil to obtain an elec. insulating oil with oxygen concn. index .apprx.7.0% (i.e., min. oxygen concn. required for continuous combustion of the oil for 3 min, JIS K 7201), compared with 18.5 to .apprx.20% for the oil contg. I alone.</p>				

L7 ANSWER 13 OF 15 CA COPYRIGHT 1999 ACS
AN 105:175723 CA
TI Electric insulating oils
IN Nishikawa, Shigeyoshi; Sawamura, Mikio
PA Nichicon Capacitor Ltd., Japan
SO Jpn. Kokai Tokkyo Koho, 3 pp.
CODEN: JKXXAF

DT Patent
LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	----	-----	-----	-----
PI	JP 61156604	A2	19860716	JP 1984-279045	19841227
	JP 06007442	B4	19940126		

AB C.gtoeq.12-alkylbenzenes are blended with .gtoreq.60 vol.% soybean or **vegetable oils** to obtain an elec. insulating oil for capacitors or **transformers**. Thus, dodecylbenzene (I) was blended with 60 vol.% soybean oil to obtain an elec. insulating oil with oxygen concn. index .gtoreq.21.0% (i.e., min. oxygen concn. required for continuous combustion of the oil for 3 min, JISK 7201), compared with 18.5-20% for the oil contg. I alone.

L12 ANSWER 2 OF 2 CA COPYRIGHT 1999 ACS

AN 122:59998 CA

TI Destruction of halide-containing organics and solvent purification, e.g., PCBs in **transformer** oils

IN Fookes, Christopher John Regina

PA Commonwealth Scientific and Industrial Research Organization, Australia

SO PCT Int. Appl., 89 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9414731	A1	19940707	WO 1993-AU682	19931223
	W: AT, AU, BB, BG, BR, BY, CA, CH, CZ, DE, DK, ES, FI, GB, HU, JP, KP, KR, KZ, LK, LU, LV, MG, MN, MW, NL, NO, NZ, PL, PT, RO, RU, SD, SE, SK, UA, US, UZ, VN				
	RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
	CA 2152484	AA	19940707	CA 1993-2152484	19931223
	AU 9458057	A1	19940719	AU 1994-58057	19931223
	AU 676881	B2	19970327		
	EP 675864	A1	19951011	EP 1994-903701	19931223
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE				
SE	US 5951852	A	19990914	US 1995-464806	19950828
PRAI	AU 1992-6532		19921223		
	AU 1993-7398		19930219		
	AU 1993-8059		19930326		
	WO 1993-AU682		19931223		
AB	A process and a system for removal of halide from a halide-contg. org. compd. in a solvent, a process and a system for simultaneous removal of halide from a halide-contg. org. compd. and redn. of an oxygen-contg. org.				
org.	compd. in a solvent, a process for removal of halide from a halide-contg. org. compd., and a process and a system for redn. of an oxygen-contg. org.				
org.	compd. in a solvent are disclosed. The process for simultaneous removal of halide from a halide-contg. org. compd. and redn. of an oxygen-contg. org. compd. in a solvent, includes exposing a solvent having a halide-contg. org. compd. and an oxygen-contg. org. compd., in the presence of hydrogen and a hydrogen halide scavenger, to a catalyst which is capable, in the presence of hydrogen, of (i) converting the halide in the halide-contg. org. compd. to hydrohalic acid; and (ii) reducing the oxygen -contg. org. compd.; at a pressure and at an elevated temp. and for a time sufficient: (a) to convert the halide in the halide-contg. org. compd. to hydrohalic acid; and (b) to reduce the oxygen -contg. org. compd.; and neutralizing the hydrohalic acid formed in (a) with hydrogen halide scavenger. The process is suitable for regeneration of PCBs-contaminated transformer oil for reuse.				

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(FILE 'HOME' ENTERED AT 11:36:03 ON 06 DEC 1999)

FILE 'REGISTRY' ENTERED AT 11:36:08 ON 06 DEC 1999

E SODIUM SULFITE/CN
L1 1 S E3
E COPPER SULFATE PENTAHYDRATE/CN
L2 1 S E3
E HYDROSULFITE/CN
L3 1 S E3
E CALCIUM HYDROXIDE/CN
L4 1 S E3
E SODIUM BICARBONATE/CN
L5 1 S E3
E SODIUM CARBONATE/CN
L6 1 S E3
E SODIUM CARBONATE/CN
E SODIUM BICARBONATE/CN
L7 1 S E3

FILE 'CA' ENTERED AT 11:39:48 ON 06 DEC 1999

L8 10054 S TRANSFORMER?
L9 0 S L1 AND L8
L10 0 S L2 AND L8
L11 443 S CARBON AND L8
L12 2159 S ACTIVAT?(2A)IRON
L13 0 S L8 AND L12
L14 0 S L3 AND L8
L15 19 S L4 AND L8
L16 9 S L5 AND L8
L17 31856 S ACTIVAT?(2A)CARBON
L18 13 S L17 AND L8
L19 26 S L6 AND L8

FILE 'REGISTRY' ENTERED AT 11:51:08 ON 06 DEC 1999

E IRON OXIDE/CN
L20 4 S E3

FILE 'CA' ENTERED AT 11:51:59 ON 06 DEC 1999

L21 121 S L8 AND L20
L22 12562 S VEGETABLE (2A)OIL?
L23 0 S L21 AND L22
L24 0 S TRIGLYCERIDE? AND L21
L25 3 S OXYGEN AND L21
L26 28415 S SCAVENG?
L27 16 S L26 AND L8

L27 ANSWER 16 OF 16 CA COPYRIGHT 1999 ACS
AN 68:63729 CA
TI Dielectric material for electrical apparatus
IN Polito, Anthony J.
PA General Electric Co.
SO U.S., 3 pp.
CODEN: USXXAM

DT Patent
LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	----	-----	-----	-----
PI	US 3362908	A	19680109	US 1965-427534	19650113
AB	A dielec. medium for elec. transformers and capacitors consists of halogenated aromatic compds. of the askarel type and 0.001-10% scavenger such as 3,4-epoxycyclohexylmethyl 3,4-epoxycyclohexanecarboxylate and 3,4-epoxy-6-methylcyclohexylmethyl 3,4-epoxy-6-methylcyclohexanecarboxylate. Dicyclo diepoxy carboxylates reacted with 100% HCl within 2 min., as compared with 90% in 20 min.				
using	the next best scavenger , phenoxypropylene oxide + tribenzylamine. The dielec. medium reduced corrosion and harmful chem. effects due to dissolved HCl.				

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Entry 5 of 11

File: DWPI

Feb 21, 1989

DERWENT-ACC-NO: 1989-076827

DERWENT-WEEK: 198910

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TITLE: Dielectric oil additive - comprising liq. halogenated hydrocarbon and surfactant, pref. fluorinated, to stabilise against oxidn. etc.

INVENTOR: MAIER, B R

PATENT-ASSIGNEE: MAIER B R[MAIEI]

PRIORITY-DATA:

APPL-NO

1987US-0130014

APPL-DATE

December 8, 1987

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
US 4806276 A	February 21, 1989	N/A	006	N/A

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	APPL-DESCRIPTOR
US 4806276A	December 8, 1987	1987US-0130014	N/A

INT-CL (IPC): H01B 3/24

ABSTRACTED-PUB-NO: US 4806276A

BASIC-ABSTRACT:

Additive for dielectric oil comprises: (a) a halogenated hydrocarbon which is liq. up to at least 70 deg F; and (b) a surfactant.

Component (a) is pref. a halogenated 1-3C alkane; pref. C₂F₄Br₂ (esp. pref.), CF₂Br₂ or CH₂BrCl. Component (b) is pref. a fluorosurfactant of formula R_fCH₂CH₂O(CH₂CH₂O)_xH R_f = F(CF₂CF₂)₃₋₈, x = more than 1. The oil is pref. a mineral oil or synthetic oil or esp. a petroleum based paraffinic or naphthenic oil or a vegetable oil: specifically pref. is glyceryl trierucate.

ADVANTAGE - The additive produces an even suspension of halogenated hydrocarbon in a transformer oil. This gives the oil greater longevity of operation than other known additives, by reducing the oxidative breakdown. The additive is less hazardous than previously or currently used additives; and imparts higher cup flash point temp. and auto-ignition temp. than other non-PCB contg. additives. The dielectric strength and electrical resistance of the oil are improved and stabilised.

ABSTRACTED-PUB-NO: US 4806276A

EQUIVALENT-ABSTRACTS:

CHOSEN-DRAWING: Dwg.0/0

DERWENT-CLASS: A97 E16 H08 L03 X12

CPI-CODES: A12-E; A12-W02A; E10-E04M2; E10-H02B; E10-H02D; H08-D08;
L03-B02D;

EPI-CODES: X12-C09; X12-E02A;

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Document Number 11

Entry 11 of 11

File: DWPI

Dec 6, 1977

DERWENT-ACC-NO: 1977-89839Y

DERWENT-WEEK: 197750

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TITLE: Diphenoquinone diphenohydroquinone polymers - useful as oxidising and reducing agents

PATENT-ASSIGNEE: GENERAL ELECTRIC CO[GENE]

PRIORITY-DATA:

APPL-NO

APPL-DATE

1976US-0676854

April 14, 1976

1974US-0435335

January 21, 1974

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
US 4061617 A	December 6, 1977	N/A	000	N/A

INT-CL (IPC): C08F 4/50; C08L 65/02; C08L 71/04; C09K 15/00

ABSTRACTED-PUB-NO: US 4061617A

BASIC-ABSTRACT:

Homopolymers having recurring units of formula (I) or (II) are new: (where R1 and R2 are monovalent acyclic or cyclic hydrocarbon gps. R3 is divalent acyclic or cyclic hydrocarbon gp).

The redox polymers are thermally stable and retain their redox as well as their ion exchange props at temps. of e.g. 150-300 degrees C or even higher. They may be used to remove dissolved oxygen from water, as antioxidants to delay or inhibit deterioration in rubbers, gums, unsatd. fatty oils, such as vegetable oils, essential oils, petroleum prods. soaps, aldehyde, surface-coating resins such as textile resins, paper coatings and binders, paints and in drying oil, to remove or to convert for subsequent removal, trace quantities of peroxide or oxidants in monomer solns. to serve as models for biochemical systems, to treat gastrointestinal ulcers, as nondoffusing reducing agents, for photographic colour emulsions, as depolarising masses for primary and secondary electrical cells, as stabilisers in dielectric compsns. as a semi-conductor polymeric ingredient as well as an ion exchange resin.

ABSTRACTED-PUB-NO: US 4061617A

EQUIVALENT-ABSTRACTS:

DERWENT-CLASS: A18 A60 A85 A96 B04 G02 L03

CPI-CODES: A05-J; A08-A06; B04-C03D; B12-E08; G02-A02B; G02-A05C; G03-B02E; G06-G10; L03-E01;

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Document Number 21

Entry 21 of 36

File: DWPI

Mar 1, 1988

DERWENT-ACC-NO: 1988-084005

DERWENT-WEEK: 198812

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TITLE: Sec. battery comprising polymer film - contg. plasticiser with dissolved halide salt epoxidised vegetable oil and graphite

INVENTOR: NODING, S A; SIEGEL, S A

PATENT-ASSIGNEE: DOW CHEM CO[DOWC]

PRIORITY-DATA:

APPL-NO

1987US-0056616

APPL-DATE

June 1, 1987

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
US 4728588 A	March 1, 1988	N/A	006	N/A
CA 1291527 C	October 29, 1991	N/A	000	N/A
EP 293946 A	December 7, 1988	E	000	N/A
JP 63301469 A	December 8, 1988	N/A	000	N/A
KR 9201313 B1	February 10, 1992	N/A	000	H01M010/40

DESIGNATED-STATES: AT BE CH DE FR GB IT LI NL SE

CITED-DOCUMENTS: 2.Jnl.Ref; A3...8921 ; FR 1324076 ; JP60009066 ;
No-SR.Pub ; US 4281072 ; US 4366216 ; US 4714665 ; WO 8601521

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	APPL-DESCRIPTOR
US 4728588A	June 1, 1987	1987US-0056616	N/A
EP 293946A	January 21, 1988	1988EP-0200110	N/A
JP63301469A	January 27, 1988	1988JP-0014801	N/A
KR 9201313B1	January 27, 1988	1988KR-0000621	N/A

INT-CL (IPC): H01M 10/36; H01M 10/40

ABSTRACTED-PUB-NO: US 4728588A

BASIC-ABSTRACT:

A sec. battery comprises a polymer film and collector plates in electronic contact with each side of the film. The film comprises a polymer, a plasticiser, an epoxidised vegetable oil, a salt and graphite. The salt is solubilised in the plasticiser and disassociated and has the formula MXa where X is chloride, bromide or iodide and M is a metal of oxidn. state a and reduction-oxidn. potential greater than that of X.

USE/ADVANTAGE - The battery can be thin and flexible even when

USE/ADVANTAGE - The battery can be thin and flexible even when constructed of a number of cells.

ABSTRACTED-PUB-NO: US 4728588A
EQUIVALENT-ABSTRACTS:

CHOSEN-DRAWING: Dwg.0/0

DERWENT-CLASS: A85 E19 L03 X16
CPI-CODES: A08-M09A; A08-P01; A08-P07; A08-R03; A09-A03; A12-E06;
A12-S06; E10-G02F; E10-G02G; E31-N04B; E33-G; E34-D02; L03-E03;
EPI-CODES: X16-B01; X16-F02;

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DWPI	l11 and l6	30	<u>L14</u>
DWPI	l11 and l4	412	<u>L13</u>
DWPI	l11 and l2	143	<u>L12</u>
DWPI	(oxidation or oxygen) near3 (reduc\$ or absorb\$)	13410	<u>L11</u>
DWPI	l8 and l6	4	<u>L10</u>
DWPI	l8 and l2	10	<u>L9</u>
DWPI	triglyceride\$	4659	<u>L8</u>
DWPI	l3 and l6	6	<u>L7</u>
DWPI	transformer\$ or switchgear\$	97563	<u>L6</u>
DWPI	l3 and l4	11	<u>L5</u>
DWPI	electrical	334374	<u>L4</u>
DWPI	l1 and l2	38	<u>L3</u>
DWPI	dielectric\$	91507	<u>L2</u>
DWPI	vegetable near2 (oil or oils)	8608	<u>L1</u>

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